

What is claimed is:

1. A composite adsorbent for treatment or adsorption of gases comprised of a shaped substrate having an adhesive on a portion of at least one side thereof, and an adsorbent that has been immobilized as a layer on said adhesive portion of said substrate.
2. A composite adsorbent as set forth in claim 1 wherein said adsorbent is selected from the group consisting of activated carbon, impregnated activated carbons, silicas, natural and man-made zeolites, molecular sieves, clays, aluminas, or ion exchange resins.
3. A composite adsorbent as set forth in claim 2 wherein said activated carbon is granular activated carbon.
4. A composite adsorbent as set forth in claim 1 wherein said substrate is a pressure sensitive adhesive tape.
5. A composite adsorbent as set forth in claim 1 wherein said substrate is selected from the group consisting of acrylics, polycarbonates, polyimides, polyphenylene ether, polyphenylene sulfide, acrylonitrile-butadiene-styrene copolymers, polyesters, ethylene vinyl acetate, polyurethanes, polyamides, polyolefins, blends and derivatives thereof.
6. A composite adsorbent as set forth in claim 1 wherein said shaped substrate is in the shape of a spiral, disc, cylinder or otherwise folded so that said adsorbent contacts a side of said substrate that does not contain adsorbent.
7. A composite adsorbent as set forth in claim 1 in combination with an air permeable housing.
8. A composite adsorbent as set forth in claim 7 wherein said housing includes an impermeable unit having a screen, holes, open lattice structure, or permeable fabric portion.

9. A method for making a shaped composite adsorbent for treatment or adsorption of gases in an application comprising:

- a. sizing a substrate for said application having an adhesive on a portion of at least one side thereof;
- b. coating said substrate adhesive portion with adsorbent;
- c. folding said coated portion so that said adsorbent contacts a side of said substrate that does not contain adsorbent.

10. A method for making a composite adsorbent as set forth in claim 9 wherein said folding results with said substrate being folded into the shape of a spiral, disc, cone or cylinder.

11. A method for making a composite adsorbent as set forth in claim 9 wherein said coating substantially coats said substrate adhesive portion with adsorbent to provide high particulate loading of said adsorbent.

12. A method for making a composite adsorbent as set forth in claim 9 wherein said coating applies a mono-layer of adhesive onto said adsorbent.

13. A method for making a composite adsorbent as set forth in claim 9 wherein said including one further step of combining said composite adsorbent with one or more of said composite adsorbents.

14. A composite adsorbent as set forth in claim 1 wherein said adhesive is selected from the group consisting of acrylics, vinyl ethers, natural or synthetic rubber-based materials, poly (alpha-olefins), and silicones.

15. A composite adsorbent as set forth in claim 1 wherein said adhesive is an integral part of a portion of said substrate.

16. A composite adsorbent as set forth in claim 1 wherein said shaped substrate is used as a folded sheet, layers of sheets, ribbon, roll, coil, or disk.

17. A composite adsorbent as set forth in claim 1 wherein said substrate is used combined with one or more additional of said substrates.